CIVIL TECH LABS

Accredited by NABL as per ISO / IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027.
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

To,

Assistant Executive Engineer
Yelahanka New Town Sub Division,
BBMP, Bangalore-64

12th Februarv 2015

Dear Sir,

Sub: Testing of Bituminous Concrete

As requested, the required tests were carried out for the Bituminous Concrete and Wet Mix Macadam for the samples supplied by you, for the work of **'Improvements to roads Green square Ananthpura in Attur Ward No. 03'.**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೦೬೫

B.N. Prakash

CIVIL TECH LABS
4, 1st Cross, Srinivasa Colony, Mysore Road, Bangalore - 560 026
Ph: 080 - 2211 2362, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON DETERMINATION OF BITUMEN CONTENT ON BITUMINOUS CONCRETE MIX-GRADE 2

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Improvements to roads Green square Amanilpura in Attur Ward No. 02.
Name of Agency	Sri. Y. A. Dhanashekar
Date of Testing	12/02/2015

A)

Sl. No.	Test	Test Method	Technical Reference
1	Extraction of mineral aggregate	Test Method A (Centrifuge Method)	ASTM: D2172/ D2172M-11
2	Determination of amount of mineral matter/fines in the extract	Ashing Method	

B)

Specification: As Per MORTH (4th Revision) Table 500-18, Bitumen Content for BC Grade-2 is 5% to 7%

Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, W_1 g	2000.00
2	Weight of mineral aggregate obtained from centrifuge extractor, W_2 g	1871.50
3	Weight of mineral matter in the total volume of extract (by ashing), W_3 g	13.51
4	Total weight of aggregate in the bituminous mixture, W_4 g = (W_2 + W_3) g	1885.01
5	Total weight of Bitumen extracted from the mixture, W_5 g = (W_1-W_4) g	114.99
6	Bitumen content in %, (W_5/W_1) %	5.75

Remarks	**Satisfies the requirement.**

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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(ಯೆ)ಕರ ಸಾಮಾನ್ಯರ ಉಪವಿಭಾಗ.
ಬೆಂಗಳೂರು-105

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Improvements to roads Green square Ananthpura in Attur Ward No. 03
Name of Agency	Sri. Y. A. Dhanashekar
Date of Testing	12/02/2015
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	100	**Satisfies the requirements**
13.2	79-100	97.6	
9.5	70-88	84.2	
4.75	53-71	63.4	
2.36	42-58	51.1	
1.18	34-48	36.8	
0.6	26-38	30.4	
0.3	18-28	21.7	
0.15	12-20	15.4	
0.075	4-10	7.9	

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16/2/15

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ಬ.ಜ.ಬ.ಮ. ಬೆಂಗಳೂರು-106

Lab Incharge
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CIVIL TECH LABS

TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Improvements to roads Green square Amanthpura in Attur Ward No. 03.
Name of Agency	Sri. Y. A. Dhanashekar
Date of Testing	12/02/2015
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sample-1		Remarks
	% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2	Actual % By Weight Passing IS Sieve	
19	100	**100**	Satisfies the requirements
13.2	79-100	**96.8**	
9.5	70-88	**85.3**	
4.75	53-71	**64.5**	
2.36	42-58	**52.6**	
1.18	34-48	**35.4**	
0.6	26-38	**31.2**	
0.3	18-28	**22.8**	
0.15	12-20	**16.4**	
0.075	4-10	**8.2**	

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Lab Incharge
Civil Tech Labs

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CIVIL TECH LABS
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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027.
Ph: 080 - 4114 2867 / Mob : 96862 31801, Email: civiltechlabs@gmail.com

To,

Assistant Executive Engineer
Yelahanka New Town Sub Division,
BBMP, Bangalore-64.

30th January 2015

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Improvements to roads Green square Ananthpura in Attur Ward No. 03'.**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	M/S. Yelahanka New Town SLB Owners, [illegible]
Name of Work	Improvements to roads Green Square Amruthpura in Attur Ward No. 03.
Name of the Agency	Sri. Y. A. Dhanushekar
Date of Testing	30/01/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೦೬೩

CIVIL TECH LABS
3, 1st Cross, Nanjesh Colony, Mathur Road, Bangalore - 560 073
Ph: 9880 - 41 61 2567, E-mail: civiltechlabs@gmail.com

TEST REPORT

TEST ON FINE AGGREGATES Ref IS 383/2386

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BDMP
Name of Work	Improvements to roads Green square Anjanthpura in Attur Ward No. 03.
Name of the Agency	Sri. Y. A. Dhanashekar
Date of Testing	30/01/2015
Specific Gravity	2.56

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	100	100	100	100	100	II
	4.75	98.6	90-100	90-100	90-100	95-100	
	2.36	84.6	60-95	75-100	85-100	95-100	
	1.18	73.4	30-70	55-90	75-100	90-100	
	0.6	45.2	15-34	35-59	60-79	80-100	
	0.3	24.8	5-20	8-30	12-40	15-50	
	0.15	8.3	0-10	0-10	0-10	0-15	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech labs

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ಬಿ.ಡಿ.ಎ.ಪ್ರ, ಬೆಂಗಳೂರು-105

CIVIL TECH LABS
#25, 1st Cross, Sumukha College Main Road, Bangalore - 560 017
Ph: 080 - 2371 2367, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2366

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Improvements to roads Green square Ananthpura in Attur Ward No. 03.
Name of the Ageney	Sri. Y. A. Dhanashekar
Date of Testing	30/01/2015
Specific Gravity	2.63
Water Absorption in %	0.32

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	100	100	Satisfies the requirement
20	98.6	95-100	
10	33.6	25-55	
4.75	8.6	0-10	

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